

DC Worm Geared Motor

CWC-026

30-100W

- Rated output speeds from 50 to 600 rpm.
- Output torque up to 7.3 Nm.
- High load capability on output shaft.
- All metal gears for long service life.
- Ball Bearings on output shaft.
- 3 motor sizes available.
- 24V DC brushed motor standard, 12V available.
- Hollow or solid output shafts available.
- Encoder available on C03 and C10 motors.
- Gearbox ratios available from 5:1 up to 60:1.



The **CWC-026** is the second smallest in the Worm Gearbox range available from Cobalt Controls Ltd. It is offered with a choice of three DC Motors, CI-0330, CI-0730 or CI-1030, each rated at 24 or 12 Volts DC.

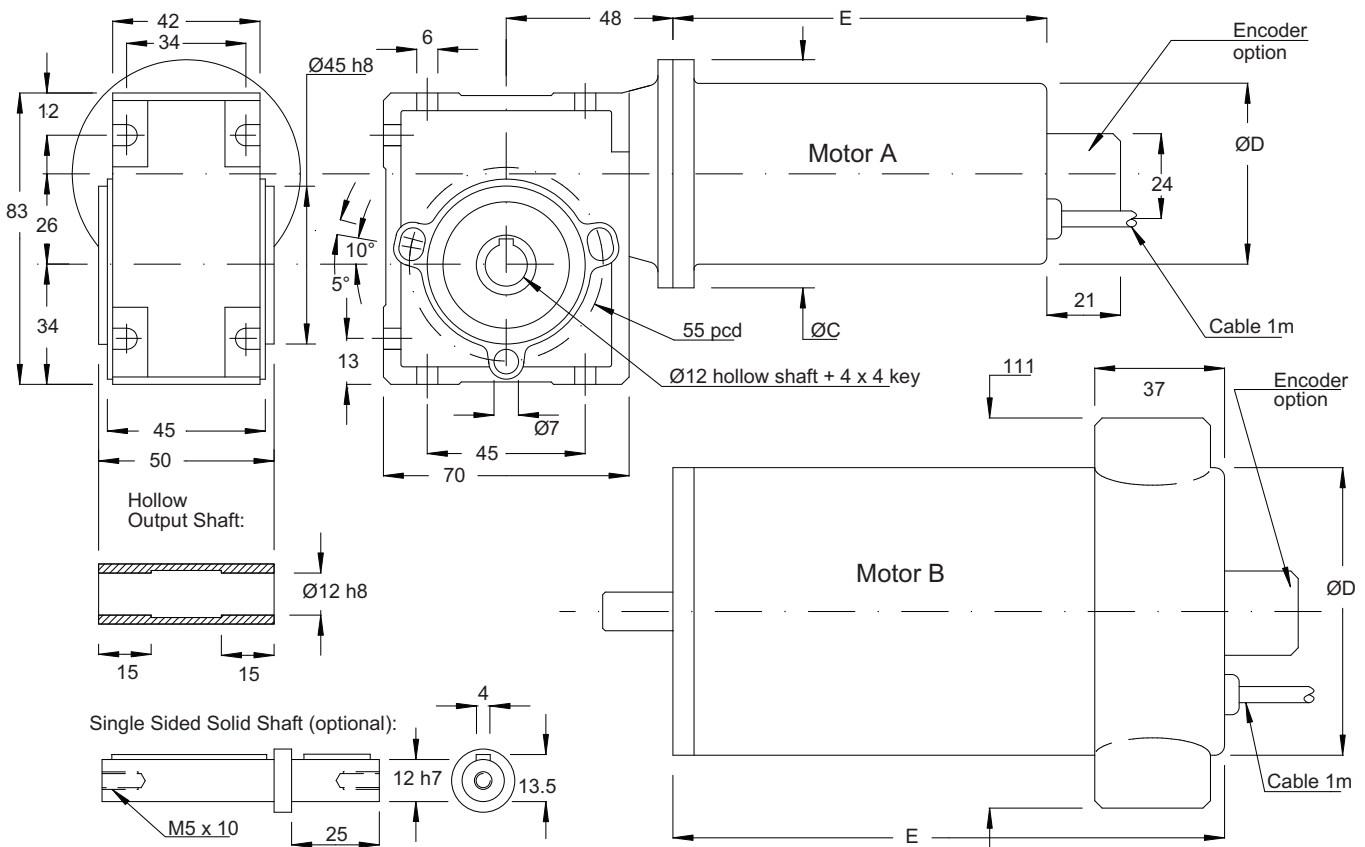
The standard output is a 12mm diameter hollow shaft but single solid shafts are also available. The die cast aluminium gearbox housing has been designed for flexibility with numerous available positions for mounting bolts.

All gearboxes are pre-filled with synthetic oil, are maintenance free and can be mounted in any position.

Motors are Low Voltage DC Brushed Permanent Magnet and offer high starting torque. Shafts are supported on Ball Bearings and Totally Enclosed construction is used.

Worm gearboxes are normally the most economically priced of all gearbox types and are mechanically robust.

Dimensions (mm):



CWC-026

CWC026 Geared Motor Data:											
	Rated Values (S2 Intermittent Operation):						Motor Dimensions:				
Motor:	Output Speed (rpm):	Output Torque (Nm):	Peak Torque (Nm):	Gearbox Ratio:	Motor Current (A):	S2 Full Load Time (minutes):	Size:	Body Length E (mm):	Body Diameter D (mm):	Flange Diameter C (mm):	Mass (kg):
CI-0330	600	0.80	15.0	5:1	4.0 (24V)	9	A	101	52	52	1.60
	400	1.20		7.5:1							
	300	1.50		10:1							
	200	2.20		15:1	8.0 (12V)						
	150	2.90		20:1							
	100	3.90		30:1							
	75	4.90		40:1							
	60	5.80		50:1							
	50	6.50		60:1							
CI-0730	600	1.38	15.0	5:1	5.9 (24V)	20	A	110	65	65	2.50
	400	2.03		7.5:1							
	300	2.63		10:1							
	200	3.86		15:1	11.8 (12V)						
	150	4.96		20:1							
	100	6.79		30:1							
	75	7.30		40:1							
	60	7.20		50:1							
	50	7.10		60:1							
CI-1030	600	1.92	15.0	5:1	8.4 (24V)	25	B	157	81	81	3.50
	400	2.81		7.5:1							
	300	3.65		10:1							
	200	5.36		15:1	16.8 (12V)						
	150	6.88		20:1							
	100	7.00		30:1							
	75	7.30		40:1							
	60	7.20		50:1							
	50	7.10		60:1							

CWC026 Geared Motor General Specification:	
Rated motor voltage:	24 Vdc standard, 12 Vdc available.
Output shaft radial load:	350N maximum.
Output shaft axial load:	70N maximum.
Operation at Rated Load (S2 Duty):	Can be operated at Rated Load for up to S2 Full Load Time followed by a cool down period.
Continuous operation (S1 Duty):	Maximum continuous torque = Rated Torque x 0.7 - Cooling required.
Protection:	IP-20 for CI-0330 and CI-0730, IP-40 for CI-1030 motor.
Gearbox efficiency:	0.88 at 600rpm, 0.60 at 50rpm (when fully run-in).
Encoder:	CE22 encoder available on C03 and C10 motors (See encoder data sheet for details).
Gearbox Temperature:	50°C max continuous.

Part Numbers:	
CWC-026-xxxxs-Clyyyy-zz+e	xxx = output speed, ss = output shaft: 1S = single sided solid or H = hollow. (Double sided solid not available for this gearbox size). yyyy = motor size, zz = voltage and e = encoder part number if required.
Example: CWC-026-2001S-CI-0330-24+CE22-1002	CWC-026 worm geared motor, 200rpm, single sided solid output shaft, CI-0330 24Vdc motor plus encoder with 100 pulses/rev and 2 channels.